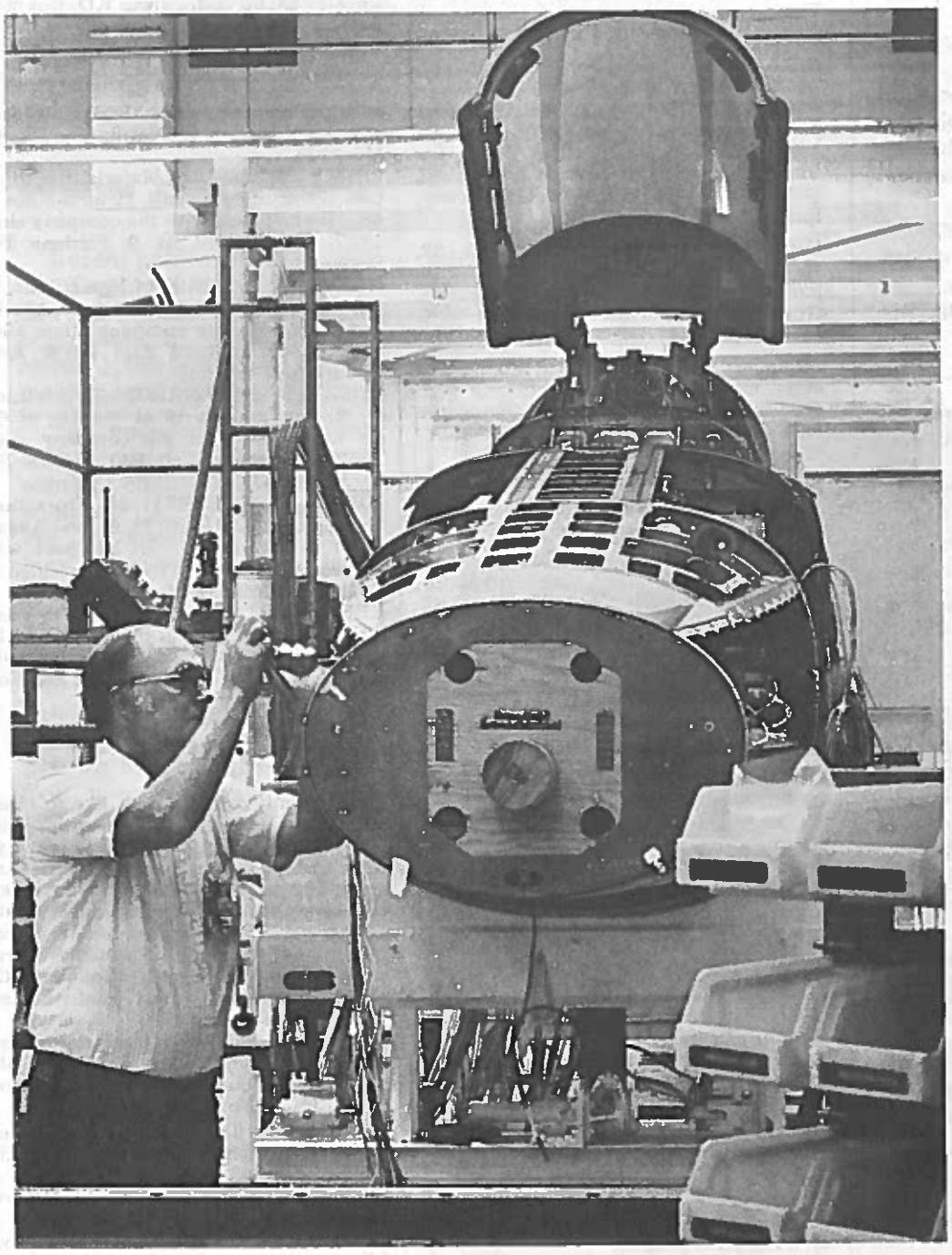
GRUMMAN
plane news

Vol. 41, No. 16, September 10, 1982. Bethpage, N.Y. 11714



Moving forward. *The engineering mockup for the forward-swept-wing aircraft is nearing completion in Plant 5. The 48-foot long mockup will be used to check the placement of hydraulic lines and electrical harnesses. Here, Jim Taffner of Product Development Operations Center works on the front end. Designated the X-29, the plane is a project of Grumman and the Defense Advanced Research Projects Agency. First flight is expected in February 1984. (Photo by Bob Settles)*

F-14/TARPS: supersonic shutterbug

-pg. 4

11,000 $ave it for later

-pg. 3

Work: check one

- ☐ Love it
- ☐ Hate it
- ☐ It's a living

-pg. 6

people

Preventing unhappy returns

Recidivism: the habitual return to crime. Unicor Federal Prison Industries, Inc., is trying to reduce it and Grumman's Lionel Wellington is helping Unicor to do the job right.

Wellington, the electrical assembly manager at Great River, is on the Business Advisory Council for the Federal Prison Industries at the Danbury, Connecticut, Correctional Institution. "The council started back in April 1981, when Unicor came to Grumman to solicit aid from industry," he explains.

Lionel Wellington

Unicor wasn't looking for money. "They wanted to make sure they were teaching the proper skills so that inmates could get work in the industry when they came out of prison," Wellington says.

Unicor is a manufacturing corporation within the federal government. Everything made by the Unicor company at each federal correctional institution is sold to the government. Last year they collectively did over $300 million in business. The inmates at the Danbury institution make cable harnesses.

Wellington, though sponsored by Grumman, must sandwich his work for Unicor between his work at Great River.

"We try to teach them the vernacular of the industry, how to sell themselves to an employer. We try to make sure they've learned the correct manufacturing techniques."

Wellington meets with inmates to listen to them and advise them.

Unicor's work is showing success. "We only started in April to monitor people after they leave. Since then, 11 of those employed by Unicor were released and six were hired into the electrical industry."

Of his own contribution he says, "I want to feel that I gave a part of me to help someone else. If some of the people being incarcerated do not return because of what we've done, I'll feel we've succeeded."

Patently good idea. *Jim Corbett (L) and Sal Salina (R) shared the honors for the Grumman Inventor of the Year award, but Grumman Corporation Chairman Jack Bierwirth figured the collaborators shouldn't have to share a plaque. Corbett, Advanced Systems, and Salina, Operations Analysis, developed a patented procedure to produce synthetic fuels from the carbon dioxide and hydrogen in air and water. (Photo by Marie Trimborn)*

calendar

AIAA: Wed., Sept. 15, Antun's, Hicksville, 5:30 p.m. Program will be Innovative R&D Strategies in Aerospace and Computer Industries. Guests welcome. S. Winkler, Ext. 4420

American Production & Inventory Control Society: Tues., Sept 28, Musicaro's, Melville, 6:30 dinner, 8:00 speaker. Technical presentation, Quality Circles. Guest speaker will be Linda McDermott, Main Hurdman Inc. Guests welcome. N. Heilweil, Ext. 2250

ASHRAE: Tues., Sept. 14, Linden Tree Restaurant, Bethpage, 6 p.m. Technical program. Guests welcome. A. Rubenstein, Ext. 1778

Bridge Club: every Thursday, Recreation bldg., 6 p.m. The club is starting a series of Duplicate games for the Novice player. The first Novice game will be held on Thurs., Sept. 30, Recreation bldg., 6 p.m. The game will be free of charge. J. James, Ext. 6002

C.B.I.: Vets Association: Tues., Sept. 28, Recreation bldg., 5 p.m. Discussion of the 35th Reunion. Reservations are now being accepted for the 36 Reunion, July 24-29, 1983, Showboat Hotel, Las Vegas. One night's deposit is required, $30.00 plus 6% tax. W. Pytlowany, Ext. 3926/R. Fong, Ext. 2484

Coin Club: (Bethpage) Wed., Sept. 22, Pl. 25 vendor conference rooms, 12:05 p.m. Informal lunchtime meeting. Grumman employees welcome. K. Hale, Ext. 1825

Computer Club: 1st and 3rd Mondays of every month, Recreations bldg., 5 p.m. Computer demonstration and discussion. Guests welcome. J. Hayne, Ext. 5556/ P. Frumkin, Ext. 2797

French Club: Tues., Sept. 14, 108 N. Windhorst Dr., Bethpage, 5:30 p.m. Election of Officers. Guests welcome. M. Mirpuri, Ext. 3895

GACE Flying Club: Mon., Sept. 20, Cosmopolitan at Republic Airport, 5:15 p.m. Regular monthly membership meeting. Guests welcome. R. Reisch, Ext. 4847

Grumman Disabled American Vets Club: Wed., Sept. 15, Pl. 3 cafeteria, 4 p.m. Business meeting. T. Melia, Ext. 4750

Grumman Family Campers: Fri., Sept. 24-26, Nassau Beach. Guests welcome. B. Ingersoll, 364-3884, Ext. 223/J. Perrotta, Ext. 5851

IEEE L.I. Section: Thurs., Sept 30, P.I.N.Y., Farmingdale, 7 p.m. Program will be Avionics Distributive Processing Systems. Guest speaker will be Thomas Newman of Grumman. Guests welcome. R. Hong, Ext. 3634

Klown Klub: second Tuesday of every month, Recreation bldg., 4:15 p.m. Learn the art of clowning, makeup, magic, etc. Guests welcome. M. Deyns, Ext. 7564

Motorcycle Club: Wed., Sept. 15, Recreation bldg., 5 p.m. General meeting. Guests welcome. B. Coutieri, Ext. 4828

N.Y.S.S.P.E Suffolk County Chapter: Sunday, Sept. 12, Hoyt Farm Park, Smithtown, 12 noon. Yearly picnic for members only. W. Lipman, Ext. 2506

Professional Secretaries International: Thurs., Sept. 16, Riverhead Polish Independent Club, Riverhead, 6 p.m., networking, 6:30 dinner, cost of dinner $7.00. Program will be Obtaining Credit for Women. Guests welcome. C. Evans, Ext. 117-7167

Society of Manufacturing Engineers: Mon., Sept. 20, Lupton Hall, State University at Farmingdale, Farmingdale, 7:30 p.m. Guest speaker will be Bill Planick of Bridgeport Textrons. Guests welcome. V. Pavlik, Ext. 8737

obituaries

JOHN S. HERMAN of Field Operations Services, Pl. 40, died July 30 at the age of 60. He had been with the company since 1969 and resided at 88 Laurel Hill Rd., Northport.

ASHELY W. LAMPKIN JR. of Prod. Cntl-Parts Control, Pl. 2, died August 2 at the age of 57. He had been with the company since 1962 and resided at 9 Gilhert Place, Amityville.

WILLIAM M. MULLER of Antennas and Radomes, Pl. 25, died August 4 at the age of 59. He had been with the company since 1949; his address was P.O. Box 214, Bethpage.

WALLACE C. KONDRATOWICZ of Measurement Standards, Pl. 6, died August 9 at the age of 54. He had been with the company since 1966; his address was P.O. Box 775, Neville St., Center Moriches.

PHILIP DRESSEL of Material Coordination, Pl. 6, died August 12 at the age of 48. He had been with the company since 1957 and resided at 9 Fairlane Dr., Selden.

HOMER H. ALLISON of Mgmt/Staff, Pl. 56, died August 16 at the age of 44. He had been with the company since 1967 and resided at 4123 East Baker Ave., Abengdon, Maryland.

ROSARIO PELLEGRINO of Pride Line, Pl. 2, died August 19 at the age of 66. He had been with the company since 1972 and resided at 500 Fulton St., Farmingdale.

JOHN D. EVEREST of Operations Management and Staff, Pl. 6, died August 20 at the age of 54. He had been with the company since 1967 and resided at 16 Pilgrim Dr., Pt. Jefferson.

KENNETH C. CARLSON of Heat Treat, Pl. 2, died August 24 at the age of 61. He had been with the company since 1952 and resided at 96-15th St., West Babylon.

Personals

My family and I would like to thank all my friends and colleagues, with special appreciation to the Advanced Energy Systems Group, for their thoughtfulness and sympathy expressed during the recent loss of my father. **Sol Fixler and Family**

My family and I would like to extend our sincere thanks for the many expressions of sympathy received following the recent loss of my brother, Paul. **Edward Doherty and Family**

I would like to extend my sincere thanks to all who offered their sympathy and kindness during the recent loss of my sister. **Ralph Forte and Family**

We would like to extend our sincere thanks to all who offered their sympathy and kindness during the recent loss of our father. **Chester and Edward Andrews and Family.**

Our family would like to thank all our friends and co-workers for their thoughtfulness and sympathy expressed during the recent loss of our brother, Edward Mercureo. **Josephine Gray and Hilda Fenz**

I would like to express my sincere thanks and appreciation for the kindness, prayers and thoughtfulness, with a special thank you to department 179, during my recent illness. **Jean Neumann**

Grummanites go for DCO

Thousands of Grummanites discovered an antidote for the tax bite. They selected the Employee Investment Plan's new deferred compensation option (DCO). This new tax-deferred option goes into effect Saturday, October 2.

Unveiled in late June, the deferred compensation option drew rave reviews from EIP's 15,000-plus members. Three out of four elected to use this new feature.

Greater flexibility

This new option allows Grummanites to choose the way they contribute to the EIP: regular contributions, deferred compensation contributions or a combination of the two — up to 14 percent of their base salary. The company match, choice of investment options and tax-sheltered features remain the same.

With this new EIP feature, your contributions are deposited by Grumman directly into your account. Since the money is not paid directly to you, these contributions are not considered as current income by the Internal Revenue Service (IRS). Such deposits are not subject to federal taxes, or most state and local taxes. At the end of the year, your W-2 form will show your income reduced by the amount of the deferred compensation contribution.

Add, don't subtract

All salary-related Grumman benefits — pension, life insurance, long- and short-term disability — continue to be calculated with the investor's *unreduced* base pay.

While most EIP members had the opportunity to contribute up to 14 percent of their base pay using the deferred compensation option, some people were limited by IRS regulations.

"To protect against 401(k) options favoring higher-paid personnel, the IRS designed the fairness or non-discrimination test," reports Grumman Corporation Secretary Bob Bradshaw. "To meet the IRS requirements, the percentage that the higher-paid one-third of the company workforce may contribute is limited by the percentage that the remaining two-thirds contributes.

"As a result, the contributions of higher-paid participants were limited to nine percent. These investors have been notified by mail," says Bradshaw.

Those Grummanites who chose deferred compensation will notice a change in their paychecks next month. For weekly paycheck recipients, the evidence will appear October 14; biweekly paychecks on October 21.

The EIP quarterly report sent to each investor will reflect this new investment feature in its final report for 1982.

Deferred compensation investors are reminded that they may reduce their DCO percentage or drop the option altogether at any time. However, the DCO percentage cannot be increased, and people cannot sign up for this new option, until the next enrollment period which is in July 1983.

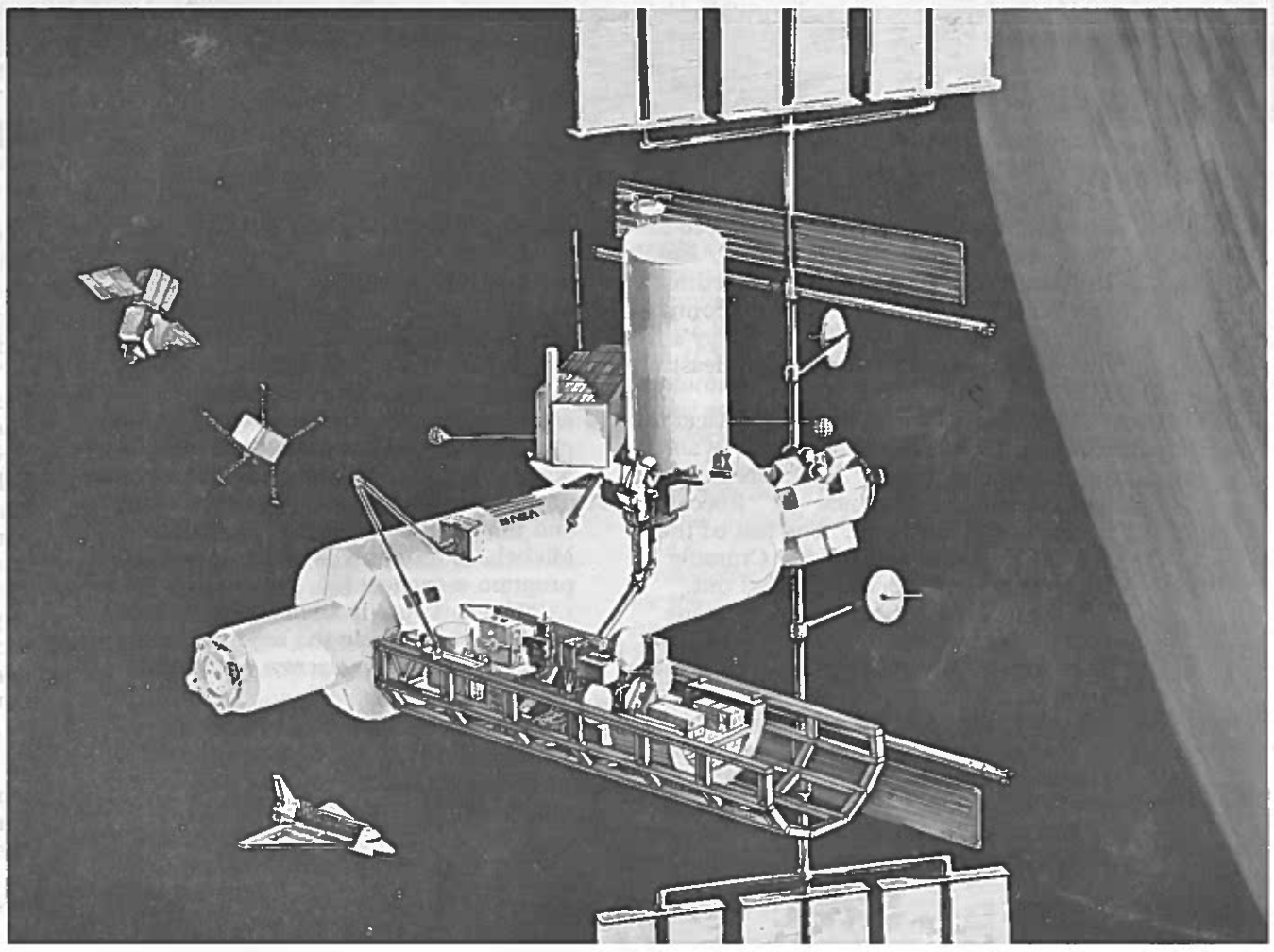
To comply with IRS regulations, the EIP deferred compensation portion will be monitored each month. Some adjustments to the higher-paid one-third might be necessary. These investors will be notified.

New recruits

Recent publicity concerning the Employee Investment Plan and its popular new deferred compensation option drew about 1,400 additional Grummanites into the Plan.

The majority of these new EIP members elected to make regular contributions. The company is currently matching 75 percent of the members' contributions -- up to 4 percent of their annual base pay.

While you must wait until the next enrollment period in July 1983 to sign up for deferred compensation, you may sign up for the EIP any time. For more information, call Ext. 7250.



Place in space. *NASA recently awarded Grumman Aerospace a $790,000 contract to identify missions, requirements, and benefits of a space station. The above rendering is one of many concepts Grumman is examining for space stations where people could live and work for extended periods. The company is teamed with General Electric and COMSAT General Corporation for this study effort.*

GRUMMAN plane news

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Editor
Norine Lyons Ext. 5119

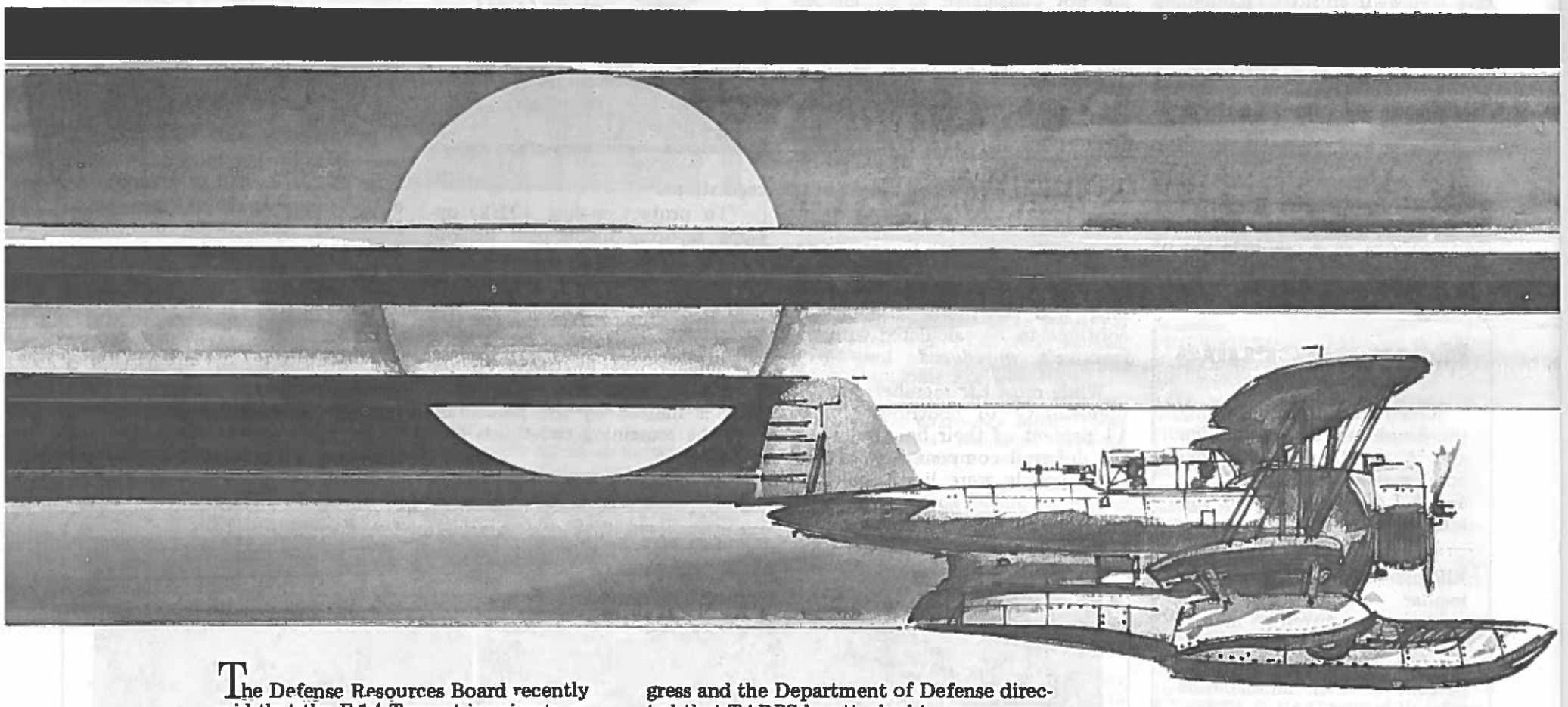
Senior Associate Editor
Kathy Housley Ext. 3293

Associate Editor
John Vosilla Ext. 5118

Editorial Assistant
Clare Byrne Ext. 8999

F-14/TARPS

The meanest camera-packing cat ever to leave the Iron Works



The Defense Resources Board recently said that the F-14 Tomcat is going to remain the Navy's front line fighter. But the board forgot to mention something: the F-14/TARPS — tactical air reconnaissance pod system — is also the Navy's front line photographer, and will be at least until 1990.

The Tomcat has taken on a critical mission: supplying the Navy with the aerial photographs it needs. There are no more dedicated reconnaissance - or "Recce" - squadrons in the Navy. The last of the RA-5C Vigilante and RF-8G Crusader squadrons were recently phased out.

"We will never again see an airplane that performs only one task," says Capt. Tom Myers. Myers was the Navy assistant program manager for Reconnaissance during the F-14/TARPS fleet introduction.

TARPS was developed by the Naval Air Development Center to be carried by either the A-7 Corsair II or the F-14 Tomcat.

But in 1976, a year after the Navy authorized the development of TARPS, Congress and the Department of Defense directed that TARPS be attached to a supersonic aircraft. The Tomcat took over the job.

Grumman had to add a few things to the Tomcat so that it could accept the canoe-shaped pod, which contains a frame camera, a wide-angle panoramic camera and an infrared line scanner. A control panel was added to operate the cameras. "We also provided an environmental control system, which prevents the camera lenses and windows from fogging during rapid altitude and temperature changes," says John Michel, Grumman's F-14 Reconnaissance program manager.

"The software in the computers was modified to provide the reconnaissance information to the aircrew and to the pod."

Grumman built 49 TARPS-configured F-14s and delivered the last one in October 1981. The pods themselves are built by the Naval Avionics Center in Indianapolis, Indiana.

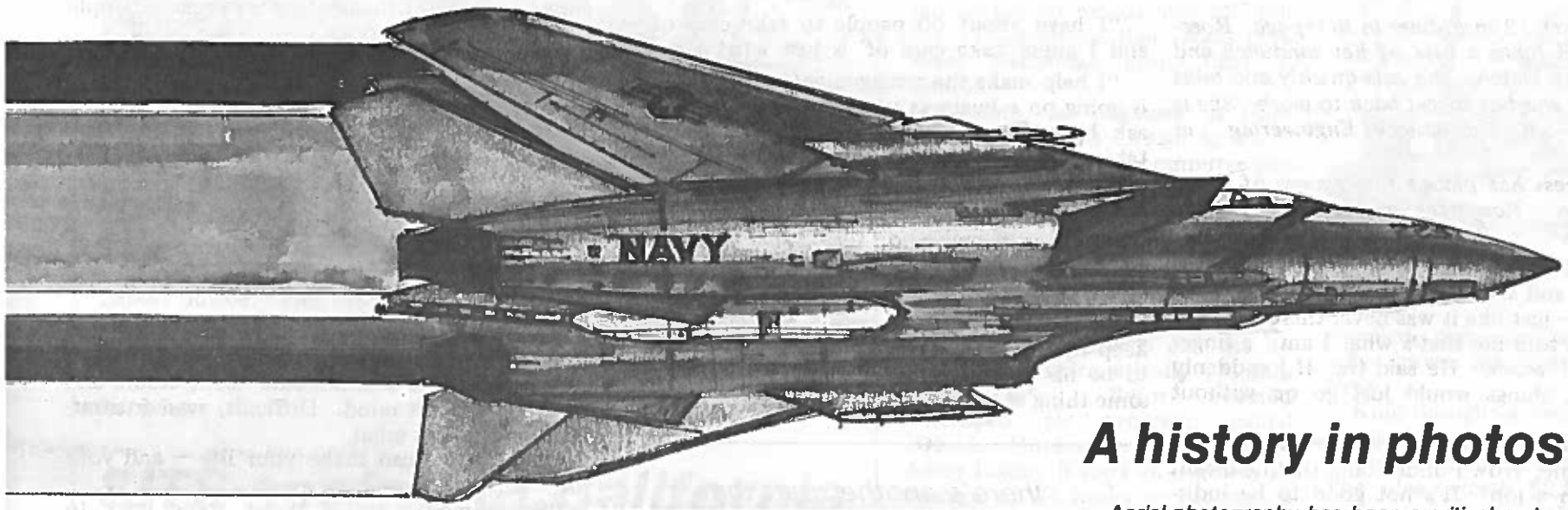
The pod is hung in the cavity between the engines. Normally, there would be Phoenix or Sparrow missiles there.

However, the pod doesn't negate the F-14's fighter role. The Tomcat can still carry Sparrows and Sidewinders on the wing pylons. Further, says Michel, "The aircraft is readily convertible back to its full fighter capability. The modifications required for full Phoenix capability can be accomplished in four hours. Full Sparrow missile capability requires less than 14 hours."

The first two squadrons to put TARPS to work on deployments were VF-84, which took it to the Mediterranean aboard the *Nimitz*, and VF-211 on operations in the Pacific aboard the *Constellation*.

So far, four deployments have been successfully completed and three are currently underway.

"It's been doing outstandingly well," Myers reports. "We're very pleased with its performance."



A history in photos

So many talents

According to Myers, the system offers the Navy several advantages over the dedicated, recce-only aircraft of the past.

"First," he points out, "it is multi-mission."

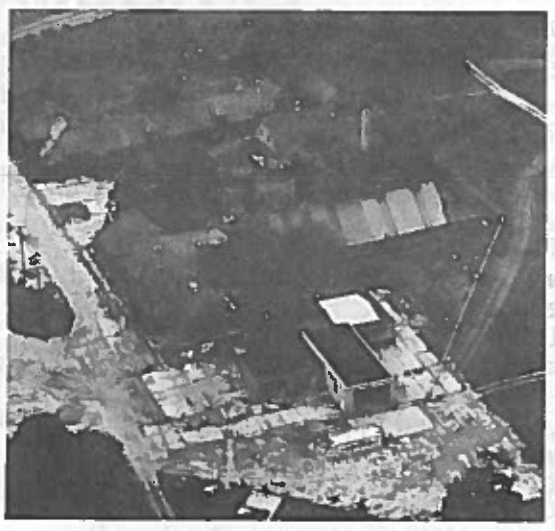
The second advantage of the F-14/TARPS combination is that fewer people are required. "Before, 165 men were needed for a Vigilante squadron. Now, 19 men are added to a regular F-14 squadron."

It is much easier to store the three pods assigned to one of the squadrons aboard each carrier than it is to find space for four planes dedicated solely to the photographic mission.

Long-term mission

The F-14/TARPS is going to bring back pictures for the Navy for at least the rest of the decade.

"This is not just an extra job for the Tomcat. TARPS is not a secondary mission, it is a second primary mission," says Myers.



What does the future hold for photo-reconnaissance? Will the aircraft-borne camera be replaced by satellites and radar to supply tactical commanders with pictures of targets before and after strikes?

Not in the near future, Myers feels. There can be no clouds or bad weather between the satellite and the target. The satellite might not even be over the target when photos are needed. "The tactical commander needs to know what's over horizon right now," he says.

On the other hand, radar is not always the kind of image that's required. So, pilots will still have to climb into their F-14/TARPS and fly over hostile targets to take pictures.

Says Myers, "We still need tactical reconnaissance."

Aerial photography has been a critical part of the intelligence gathering efforts of the armed forces for a long time. In World War II, for instance, it was estimated that 85 percent of the intelligence reports delivered to the Allies came from aerial reconnaissance. Much of it was supplied by pilots flying Grumman Aircraft.

The first Grumman aircraft to have provision for a fixed camera mounted in the fuselage was the J2F-1 Duck. Pictures were taken through an open hatch in the bottom of the amphibian's hull just aft of the landing gear.

TBF-1 Avengers were fitted out with a single camera and, later in the war, a three-camera system was installed in the TBM-3P.

Another Grumman World War II aircraft, the F4F-7 Wildcat, has the honor of being the first U.S. Navy plane built specifically for the photoreconnaissance mission. Instead of the armor and weaponry carried by the rest of the Wildcat fighter family, this plane had one camera and carried 685 gallons of fuel. It could stay airborne for as long as 24 hours and set a coast-to-coast non-stop record in 1942.

Hellcats did much of the aerial photography for the Navy during the war. Other Grumman planes, such as the Bearcat, Tigercat, Panther and Cougar were also modified into photoreconnaissance aircraft.

(Design by Rick Chiorando and Tom Wood)

work

It's one-third of your day for probably 45 years of your life. You love it, hate it, can't wait for Mondays, or just live for Fridays. It gives meaning to your life, or maybe it's just a way to keep a roof over your head.

Whatever work means to you, it's part of the way you define your place in the world.
This is the first in a series of interviews in which Grummanites talk about — work.

It's 10 after 12 in a diner in Bethpage. Rosemary Daniell takes a bite of her sandwich and glances at her watch; she eats quickly and talks fast because she has to get back to work. She is a secretary in Mechanical Engineering in Plant 2.

The waitress has placed two glasses of water on the table. Rosemary picks one up, sticks her finger in.

"Glass of water. See this? You stick your finger in it, and when you pull it out the water closes over — just like it was never there.

"My boss told me that's what I am: a finger in a glass of water. He said that if I suddenly disappeared, things would just go on without me.

"That bothered me a lot because I thought he meant just me. Now I understand that he meant everyone on a job. It's not good to be indispensable; everyone you work with should know what you do. Things shouldn't fall apart when you're not there.

"I used to work with a woman who sort of kept her job a secret. She was the only one who knew where certain things were, how certain things were done. When she went on vacation for two weeks the place would go crazy.

"I guess I don't think that's such a good idea anymore.

"Also, if you do operate that way, if you refuse to let anyone know what you do, you get locked into that one job. Why should anyone promote you if you've convinced them no one else could take your place?

"Anyway, although part of me agrees with that, there's another part that wants to believe I would be hard to replace.

"When I came back from vacation a few weeks ago, I got a big welcome. I found out they'd had a hard time getting a substitute secretary while I was gone.

"When I come in in the morning, the first thing I do is plug in the coffee pot. Then I take attendance, check the 'in' box for things that need to be typed, and check the mail.

"I have about 50 people to take care of — and I guess 'take care of' is just what I mean.

"I help make the arrangements if one of them is going on a business trip. They come to me to ask how many vacation or sick days they've taken. Even when they say, 'I was out on that day? What did I take off for?' I can tell them.

Because many of them are so young — in their 20s — it makes me feel like a mother hen sometimes: they're the same age as my kids.

"In fact, it still surprises me when one of them comes over and starts a conversation. I keep thinking, 'he's only 25. . . I'm old enough to be his mother.' But I guess my kids do the same thing at work.

'. . . there's another part that wants to believe I would be hard to replace.'

"I've only been a secretary for five months. I came here from Plant 15 — I was a repro typist.

"In Plant 15, I was learning how to operate two word processing machines: a Compugraphic 7700, and an ATMS. Of all the things I did there, I liked that the best. I learned to work the machines very quickly. It was so much fun, such a challenge, they had to drag me away from it at lunch and break time.

"I can understand kids being fascinated with video games, because I was just like a kid at an arcade with my Compugraphic machine.

"My boss there used to say, 'Look at Rosemary — it took a $30,000 machine to get her to stay in her seat!'

"In this job, I'm not using a word processor — and I miss that. But just by personality, I suppose I'm better suited to this position. There's more contact with people. I like that, and I'm good at it.

"I also find that the work people do in this department is very interesting. Right now they're checking out rivets from different manufacturers. They see how they hold up on different materials, how they tolerate certain stresses.

"When I first got this job, I was a little apprehensive about doing everything right. After all, I'd never been a secretary before. So I signed up for one of those Grumman seminars for secretaries, figuring that I'd learn something.

"Boy, was that an eye-opener! All these intelligent, well-spoken women were talking about how awful their jobs were because people treated them as inferiors.

"They seemed so bright and with so much to offer — how could anyone make them feel inferior?

'When I first got this job, I was a little apprehensive about doing everything right.'

"That hasn't been my experience here, and I'm very glad about that.

"Hard work I don't mind. Long hours and overtime I don't mind. Difficult, even frustrating work I don't mind.

"But people can make your life — and your job — miserable.

"Sometimes I think about going back to school, but I don't think it would work. I learn things quickly, but it's got to be a *thing:* a new job, a new machine, something I can get my hands on.

"I read a lot — frequently a book a week — but because I read for pleasure, I don't think I retain very much. When I finish a book, I sort of erase my memory of it in order to make room for the people in the next book.

"That's a lousy habit to take back to school.

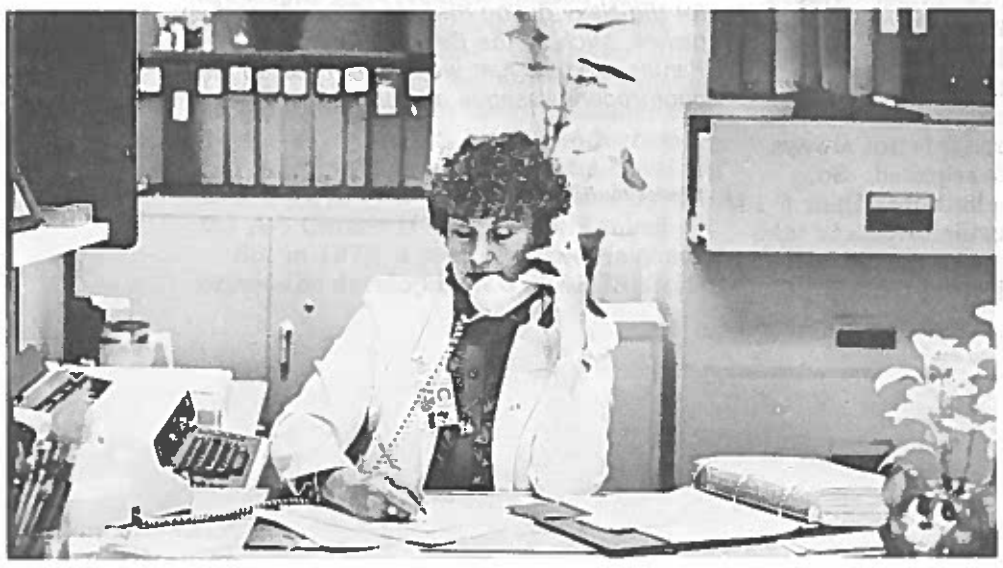
"Right now, I'm happy where I am — I'm not thinking that far ahead.

"I guess sometimes I wish I got a little more feedback on the work I do. I like things to look good. When I type a memo or a report, I want it perfect. When I hand it in and nobody says, 'hey, that looks great' it bothers me a little.

"But after all, from their point of view, it's just the way a report is supposed to look, and it's no big deal to them.

"Although everyone likes a pat on the head once in a while, it doesn't affect the way I do my work. The real satisfaction I get from my job is knowing that I've done my best.

"That's the important thing."



Expert advice. *Vice President Bob Watkins (L), deputy director of Corporate Material Operations, took a familiarization 'flight' in the F-14 SITS lab. Watkins got pointers from project pilot Kurt Schroeder (R) and Charles Brown, director of Pt. Mugu and a former test pilot.*

SITS-seeing in California

Grummanites at Pt. Mugu Operations in California recently welcomed Senior Vice President Dan Huebner, director of Marketing and Advanced Technology Development, and Vice President Bob Watkins, deputy director of Corporate Material Operations.

The visitors kicked off their one-day visit to the Pacific Missile Test Center (PMTC) with a detailed overview of Grumman activities by Pt. Mugu director Charles Brown. They also met with Rear Adm. Edwin Barrineau, commander of PMTC.

After a tour of the Grumman facilities, Huebner and Watkins addressed a packed base theater audience, consisting of the Pt. Mugu Ops. team, and Grummanites who travelled from the Los Angeles office. Huebner gave an overview of the current Aerospace business and the future market potential of these programs. Watkins explained the importance of the Political Action Committee at Grumman. A question and answer session followed.

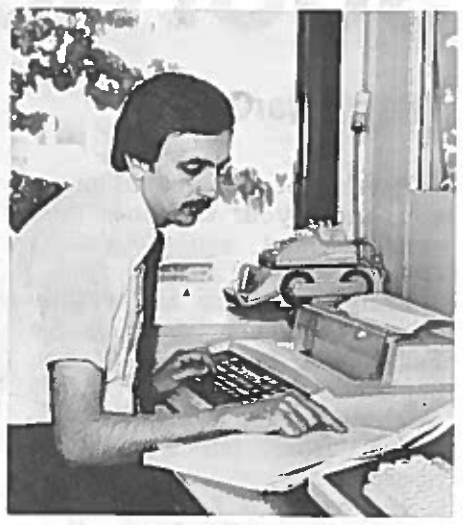
Just looking. *During his recent visit to Pt. Mugu in California, Dan Huebner (L), senior vice president of Marketing and Advanced Technology Development, toured the F-14 Systems Integration and Test Station (SITS) with Richard Riccardone, engineering manager at Pt. Mugu.*

110 get rich quick

If you go out for a drink with Carl Susinno, Chuck Hammerslag, or Ron King, make sure they pick up the tab. The top three Project Sterling winners for June and July earned nearly $10,000 for their time- and money-saving suggestions.

All the awards for the two-month period netted over $27,000 for 110 winners; their good ideas saved Grumman more than $2 million.

Susinno, an engineer in Computer Equipment Design in Pl. 7, earned $3,500 for a computer program he put together at home in his spare time using a borrowed Grumman computer.



Carl Susinno

81 hours

Grumman engineers can use his program to automatically program microcircuits. Before Susinno developed his program, called IDEAL (Interactive DEsign for Array Logic), it took an engineer an average of 84 hours to program a microcircuit. Now it takes about three hours and $10 worth of computer time. It's estimated that over the next three years, IDEAL will save Grumman nearly $3 million.

Not far behind Susinno was Chuck Hammerslag, an illustrator in Publications in Plant 15. He figured out a way to use the Xerox machine to cut costs in the production of technical manuals.

Bargain art

Instead of sending finished art to vendors to be reproduced, the art is reduced or enlarged on special copiers. The reproduction is then pasted down on a page with text and sent off to be printed. The idea saves over three dollars every time a piece of original art has to be reproduced.

Asked if he had seen any of the fruits of his idea, Hammerslag answered, "I'm sitting in a sea of it right now." He earned $3,280 from it.

Accounts receivable

Ron King is a coordinator in Field Service. Every month, he has to make sure that the Naval Engineering Service is properly billed for the work done by the more than 300 Grumman Field Service reps in the naval air stations and carriers around the world.

"Every month they each send me a certificate of service. I have a pile of them this high every 30 days," he says, raising the palm of his hand to eye level. Information from each of the sheets had to be checked, computations made and bills drawn up and sent to the Navy.

King thought a computer system could do most of the manual calculations and print out the invoices. The idea, worth $2,900 to King, will save Grumman nearly $800,000 a year.

More winners

Who took home the rest of the Project Sterling money? Some other big winners are (with plant numbers in parentheses): $1,775 - John La Russo (2); $650 - Judy Clerkin (35); $610 - Augustus Lopez (1), Edward Mulhearn (2); $525 - Raymond Bohanon (44); $500 - Victor Scaringe (77); $490 - Adolph Marinucci (3); $480 - Carl Nivolo (5); $475 - Edward Mulhearn (2); $400 - Albert Bodamer (4), Robert Knighton (66); $380 - John Caulfield and John Crawford; $370 - Bernadette Shea (30); $360 - Eugene Iacona (5); $350 - Vernell Cole (2).

Are you registered?

If you aren't registered, you can't vote — and Grumman's Political Action Committee is making it easy for you to get your name on the rolls.

Voter registration will be held during lunch hour on Wednesday and Thursday, September 15 and 16, in Plants 1, 2, 3, 5, 6, 7, 14, 25, 30, 35, 40, 43, 111, and 242.

If you have recently moved, haven't voted in four successive years, or recently reached voting age, don't miss this chance to register easily and conveniently.

scorecard

Victory garden

Here's your chance to prove you know your tomatoes (and your zucchini, squash, gladioli and zinnias).

Bring the fruits and veggies of your summer labors to the Fall Garden Show this Tuesday, September 14, in the Pl. 35 cafeteria. There'll be ten categories, from fall flowers to houseplants.

If you want to know what bonzais are all about, Gene McCormick will be giving a special demonstration at noon to explain some of the secrets of growing these miniature trees.

The show will run from 11:30 a.m. until the end of the second lunch period, but all entries must be in by 8:45 a.m.

Your local ESO has copies of contest rules.

If you shoot baskets

Tryouts begin next month for the Grumman varsity basketball team. Last year's champs are looking for new stars and the coaches say they would be really happy to see some strong rebounders show up.

Tryouts will be held at the Charles Campagne School in Bethpage on October 5, 12, 19 and 26 from 5:30 to 8:30 p.m.

The intramural season is starting soon, too. An organizational meeting for team captains will be held on Wednesday, September 22, in Plant 28A at 5 p.m. Captains should bring their team rosters, listing each player's name, perm number and department.

If you want to play but don't belong to any team, just call Recreation, Ext. 2133.

Ceramically speaking

Grumman hobbyists have only a few more weeks to put the finishing touches on their endeavors. The annual Grumman Recreation Hobby Show is slated for the week of October 11.

Entries will be accepted in Plant 28A on October 11, 12, and 13 during the following hours: noon to 1 p.m. and 4 to 6 p.m. Contestants from Calverton should contact Sal Cordaro, Ext. 6559, to arrange for shipment of their entries to the show. If you work at Great River, call Charles Greco, Ext. 6047.

The 1982 exhibit will feature the following categories: ceramics, collections, crocheting, embroidery/crewel, knitting, hooked rugs, metal work, models, model planes, model railroads, needlepoint, sewing and quilting, ship models, wood carving and wood working.

Contestants are limited to two entries per category; a maximum of six entries in the entire show. Coin exhibits are limited to one display case.

Candlelight bowling

The Third Annual Candelight Bowling Night gets underway at 7 p.m. on October 9 at the Woodbury Lanes in Plainview. Cost per couple is $11 and includes three games of bowling and a hot/cold buffet. Any combination of partners may be entered.

Entry deadline is Tuesday, October 5; there is space available for 144 people. Call Herb Mahoney of Recreation on Ext. 2133 or 2269. Make checks payable to the Recreation Department.

Shot from guns

Tired of shooting tin cans off an old fence? Join the Grumman varsity .22 caliber rimfire and International centerfire pistol teams.

Tryouts will be held at the Old Bethpage pistol range at 70 Kean Street, West, West Babylon, on Thursday, September 16. Shooters start busting caps at 7 p.m. Register with Frank Bannwarth (Ext. 113-6254) by September 14. You need not be a member of the Rod and Gun club, *but you must have a valid New York State pistol license.*

21 take home tennis trophies

Over 130 people entered the 1982 Grumman tennis tournament which ended last month. Here is the list of winners and second place finishers. Winners in each division are listed first.

Men's "A" Singles - Al Kirillin, Mel Rimer; **Men's "B" Singles** - Vern Wu, John Scannello; **Women's Singles** - Jean Stewart, Jean Hilsby; **Men's "A" Doubles** - Larry Bird and Stan Feinberg, Mark Fortune and Ray Passalacqua; **Men's "B" Doubles** - Rich Hachemeister and Frank Prisco, John Schrittwieser and John White; **Women's Doubles** - Jean Hilsby and Pat Ogilvie, Penny Baldassare and Pauline Pearson; **Mixed Doubles** - Dick Kline and Molly Kline, Craig Langwost and Elizabeth Langwost.

Netted the gold. *These are some of the winners in the 1982 Grumman Recreation tennis tournaments: (from L, back row) Al Kirrillin, Vern Wu, Ray Passalacqua, Jean Hilsby, Grumman Corporation Chairman Jack Bierwirth (who gave out the trophies), Stan Feinberg, Dick Klein, Rick Hachemeister; (front row) Mel Rimer, Penny Baldasare, John Scannello, Jean Stewart, Pat Ogilvie, Larry Bird, Frank Prisco, John Schrittwieser and John White; (seated) Recreation's Mike Cherry and Gus Spyridon.*

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